

What is claimed is:

1. A switch circuit comprising:

a first circuit portion corresponding to a first input port;

5 a second circuit portion corresponding to a second input port; and
an output port,

wherein each of the first and second circuit portions include at least one first transistor
providing a portion of an isolation channel, at least one second transistor providing a portion
of a transmit channel, and at least one third transistor for providing a control bias for

10 selecting either the transmit channel or the isolation channel.

2. The switch circuit of claim 1, wherein the circuit is formed as an integrated circuit.

3. The switch circuit of claim 1, wherein the at least one third transistor of each of the first

15 and second circuit portions provides a control bias for selecting which of the first and second
input ports are coupled to the output port.

4. The switch circuit of claim 1, wherein the at least one first transistor comprises two
transistors and the at least one second transistor comprises two transistors.

20

5. The switch circuit of claim 1, wherein the at least one first transistor comprises three
transistors and the at least one second transistor comprises three transistors.

6. The switch circuit of claim 1, wherein the at least one third transistor comprises two

25 transistors.

7. The switch circuit of claim 1, wherein respective emitters of the at least one first transistor and the at least one second transistor are coupled to each other.

5 8. The switch circuit of claim 7, wherein the respective emitters of the at least one first transistor and the at least one second transistor are additionally coupled to a collector of the at least one third transistor.

9. A method for providing isolation between at least two inputs and an output of a switch

10 circuit comprising the steps of:

providing a first channel for each of the at least two inputs including at least one first differential amplifier pair, said first channel providing isolation between the at least two inputs and the output of the switch circuit;

15 providing a second channel for each of the at least two inputs including at least one second differential amplifier pair, said second channel providing coupling between the input and output of the circuit; and

providing a control bias which selects one of the at least two inputs and a respective first channel or second channel.

20 10. A receiver apparatus comprising:

at least one antenna; and

at least one switch coupled to the antenna, said switch comprising a first circuit portion corresponding to a first input port, a second circuit portion corresponding to a second input port, and an output port, wherein each of the first and second circuit portions include at

25 least one first transistor providing a portion of an isolation channel, at least one second

transistor providing a portion of a transmit channel, and at least one third transistor for providing a control bias for selecting either the transmit channel or the isolation channel.

11. The receiver apparatus of claim 1, wherein the at least one third transistor of each of the
- 5 first and second circuit portions provides a control bias for selecting which of the first and second input ports are coupled to the output port.